R307. Environmental Quality, Air Quality.
R307-504. Oil and Gas Industry: Tank Truck Loading.
R307-504-1. Purpose.

R307-504 establishes control requirements for the loading of liquids containing volatile organic compounds (VOCs) at oil or gas well sites.

R307-504-2. Definitions.

[~~(1)~~] The definitions in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution that [~~is~~]are incorporated by reference in R307-210 apply to R307-504.

[~~(2)~~] "Bottom Filling" means the filling of a tank through an inlet at or near the bottom of the tank designed to have the opening covered by the liquid after the pipe normally used to withdraw liquid can no longer withdraw any liquid.

[~~(3)~~] "Submerged Fill Pipe" means any fill pipe with a discharge opening which is entirely submerged when the liquid level is six inches above the bottom of the tank and the pipe normally used to withdraw liquid from the tank can no longer withdraw any liquid.

"Vapor Capture Line" means a connection hose, fitted with a valve that can be connected to tanker trucks during truck loading operations, used to collect VOC emissions from truck loading operations. The other end of the vapor capture line is connected to an existing tank battery or enclosed vapor combustor for the destruction of VOC emissions.

[~~(4)~~] "Well production facility" means all equipment at a single stationary source directly associated with one or more oil wells or gas wells.

R307-504-3. Applicability.

(1) R307-504-4(1) applies to any person who loads or permits the loading of any intermediate hydrocarbon liquid or produced water at source at a well production facility after January 1, 2015.

(2) R307-504-4(2) applies to owners and operators that are required to control emissions from storage vessels in accordance with R307-506.

R307-504-4. Tank Truck Loading Requirements.

(1) Tank trucks used for intermediate hydrocarbon liquid or produced water shall be loaded using bottom filling or a submerged fill pipe.

(2) VOC emissions during truck loading operations shall be controlled at all times using a vapor capture line. The vapor capture line shall achieve no less than 70% capture efficiency and 98% destruction efficiency (95% efficiency from VOC control device and 3%

from auto ignitor requirements of R307-503) resulting in an overall control efficiency of no less than 68.6%. An equivalent control technology can be utilized if approved by the director and capable of meeting or exceeding a 68.6% overall control efficiency.

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